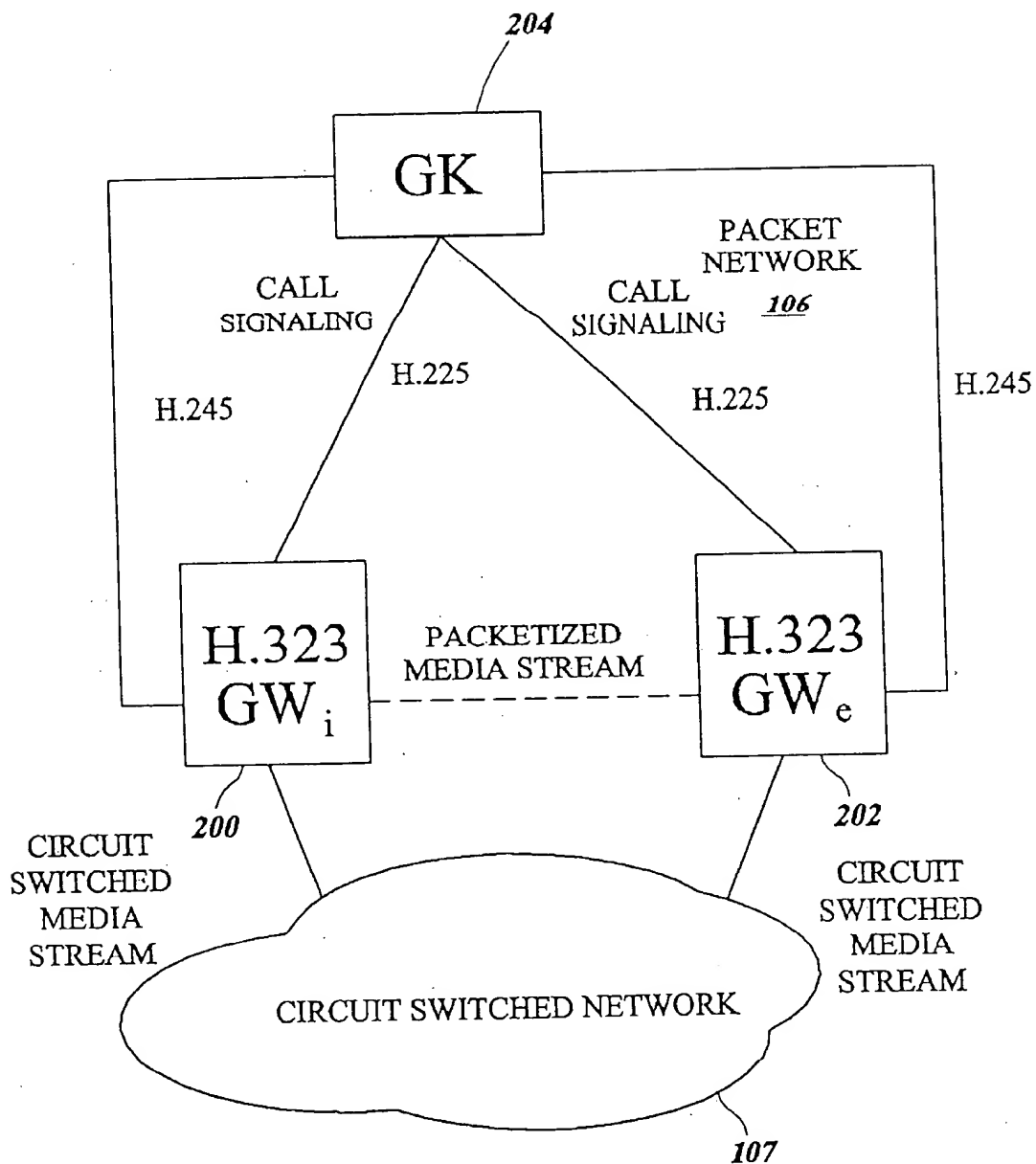


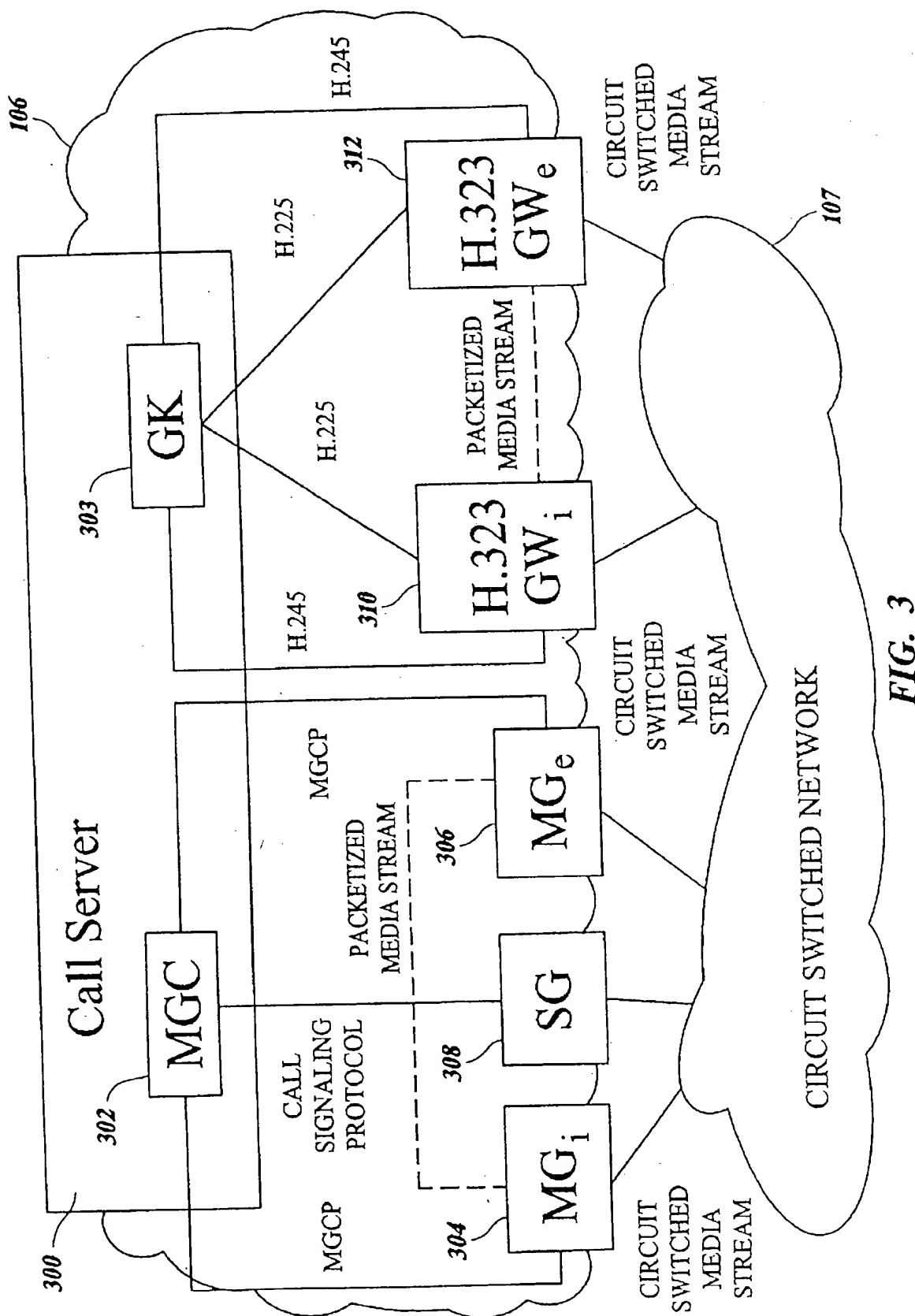
[illegible]

**(PRIOR ART)**

000120 5163060



**FIG. 2**  
**(PRIOR ART)**





000120 5169999

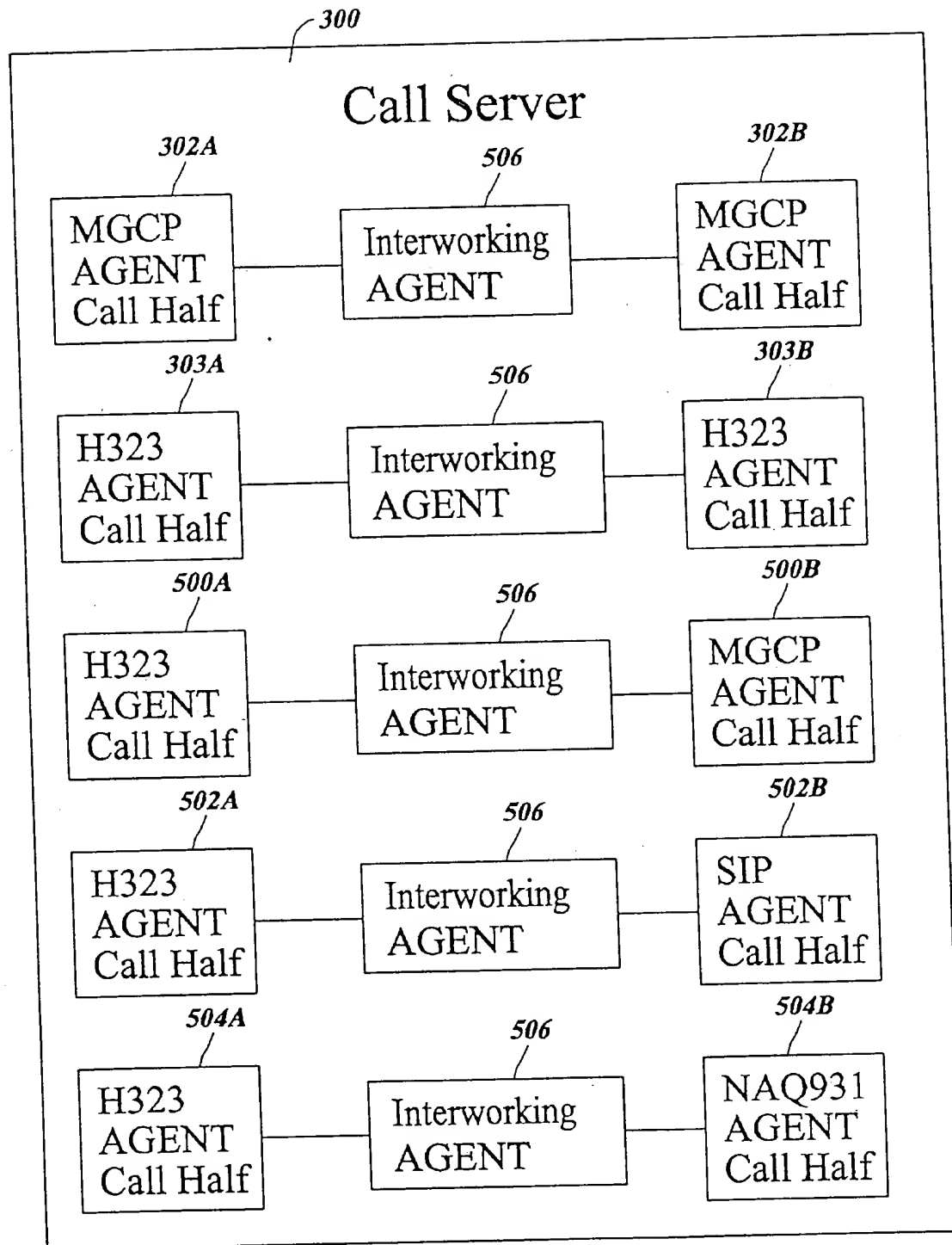


FIG. 5

The diagram illustrates a Call Server architecture, labeled 300A. It consists of two parallel processing paths. The top path is for MGCP (Media Gateway Control Protocol) and the bottom path is for H323. Each path starts with an agent block (302A for MGCP, 302B for H323) connected to an intermediate agent block (303A for MGCP, 303B for H323). These intermediate blocks are connected to a central AIP (Agent Interface Protocol) block, which is further connected to another intermediate agent block (506A for MGCP, 506B for H323). Finally, these blocks are connected to the main agent blocks (302A for MGCP, 302B for H323). The connections between the intermediate agent blocks and the main agent blocks are labeled AIP.

```
graph LR
    subgraph Call_Server [Call Server 300A]
        direction LR
        MGCP_Agent_Half_302A[MGCP AGENT Call Half 302A] --- IA_506A_1[IA 506A]
        IA_506A_1 --- AIP_1[AIP]
        AIP_1 --- IA_506B_1[IA 506B]
        IA_506B_1 --- MGCP_Agent_Half_302B[MGCP AGENT Call Half 302B]
        
        H323_Agent_Half_303A[H323 AGENT Call Half 303A] --- IA_506A_2[IA 506A]
        IA_506A_2 --- AIP_2[AIP]
        AIP_2 --- IA_506B_2[IA 506B]
        IA_506B_2 --- H323_Agent_Half_303B[H323 AGENT Call Half 303B]
    end
```

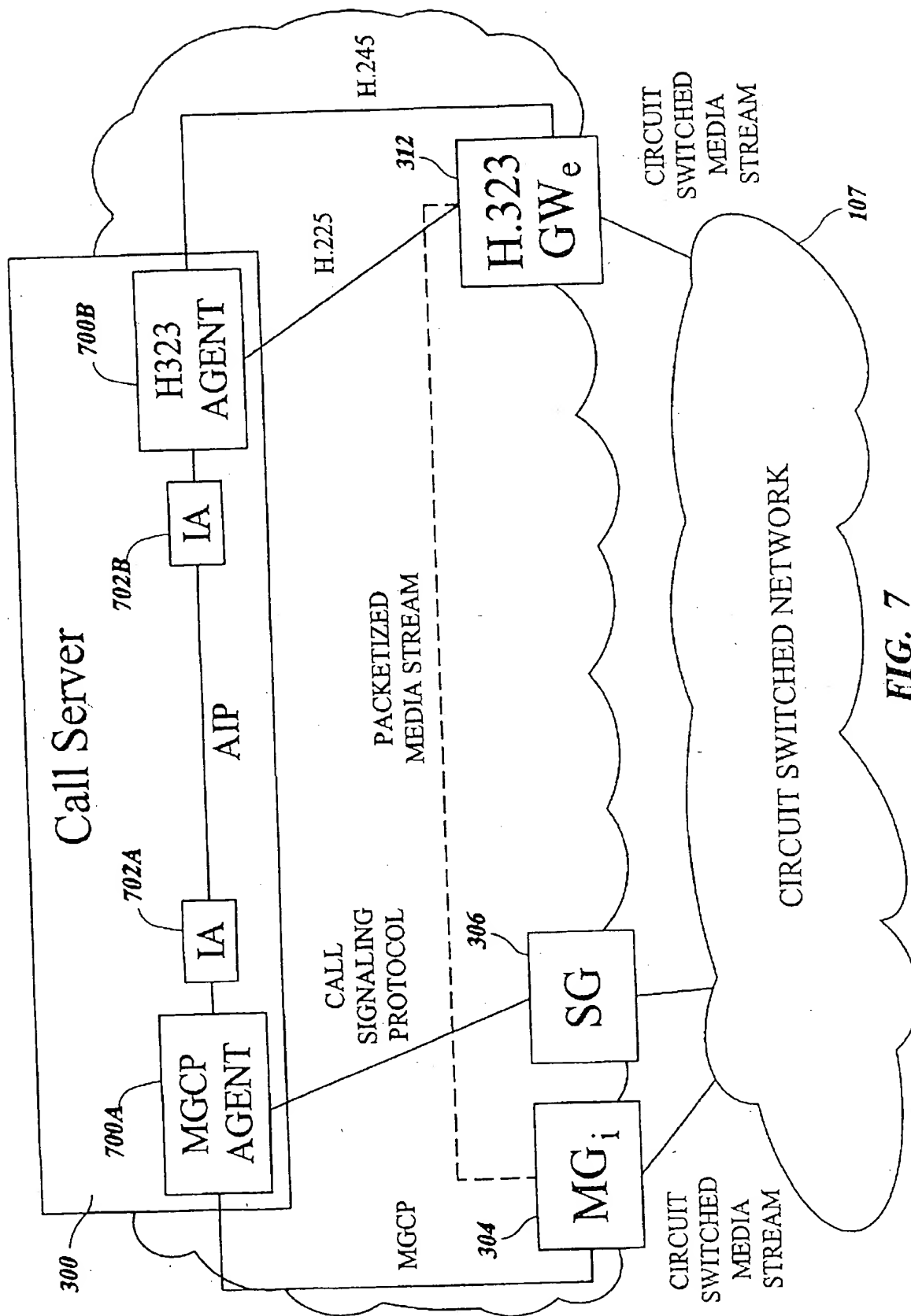


FIG. 7

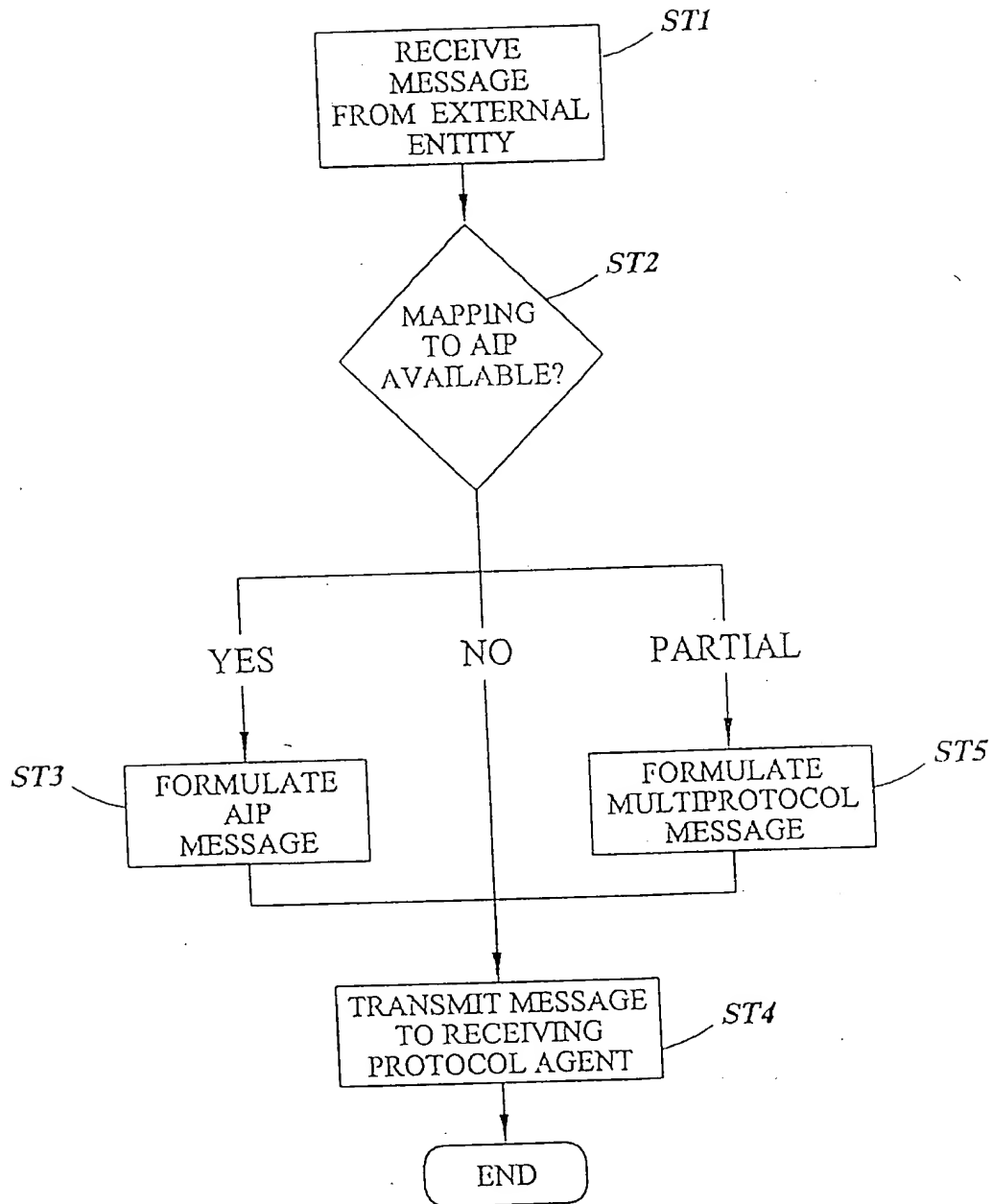
# Connection Information Parameter

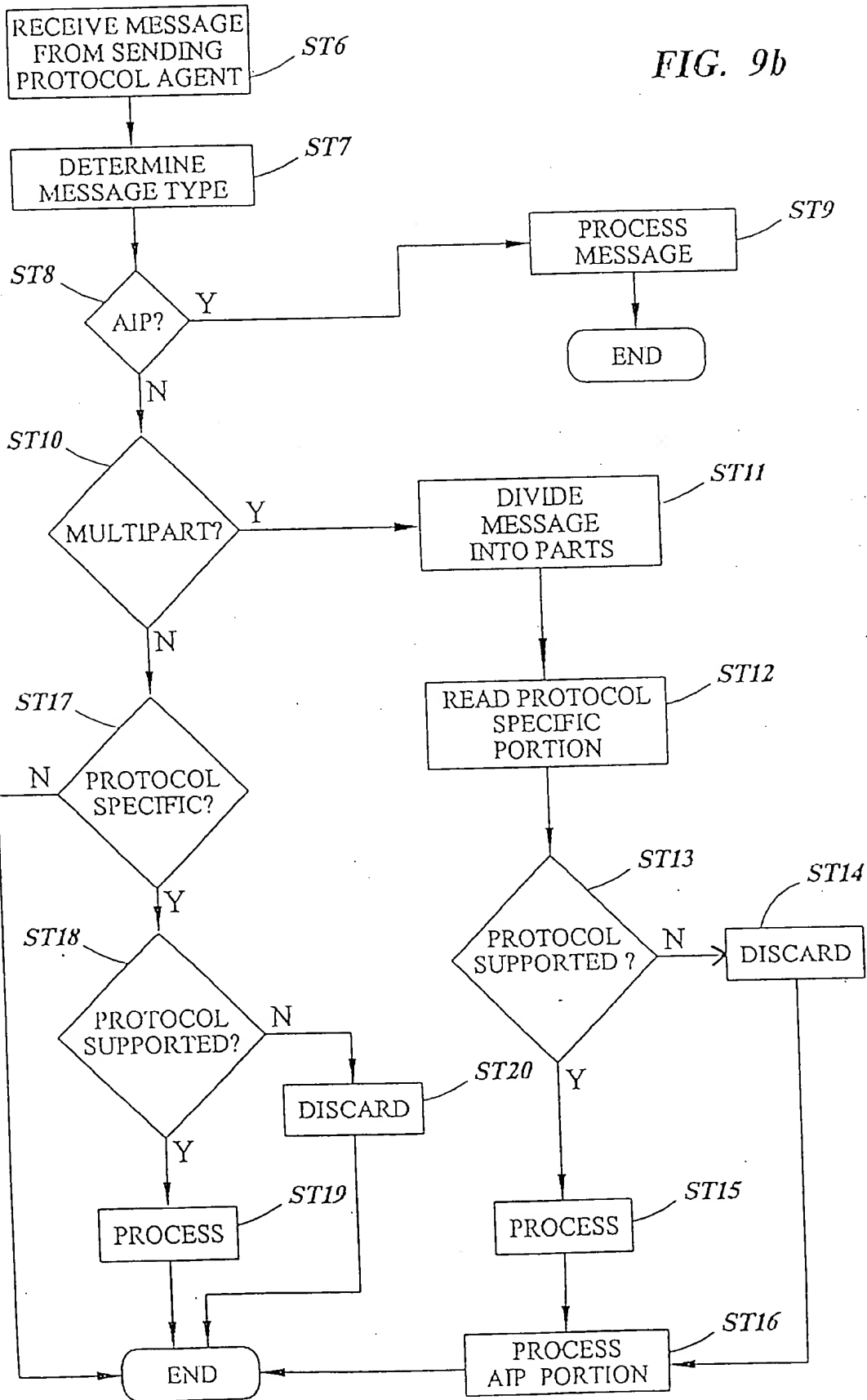
Field	Example Values
800 Media Type	802 Audio, Video, Data
804 Channel ID	806 12345
808 Channel Operation	810 No action, open, close, modify, mode change, redirect, direct, send capabilities
812 Current Media Description	814 G.711@2 frames/packet
816 Media Capabilities	818 G.711, G.729, RTP address, payload size, media specific information

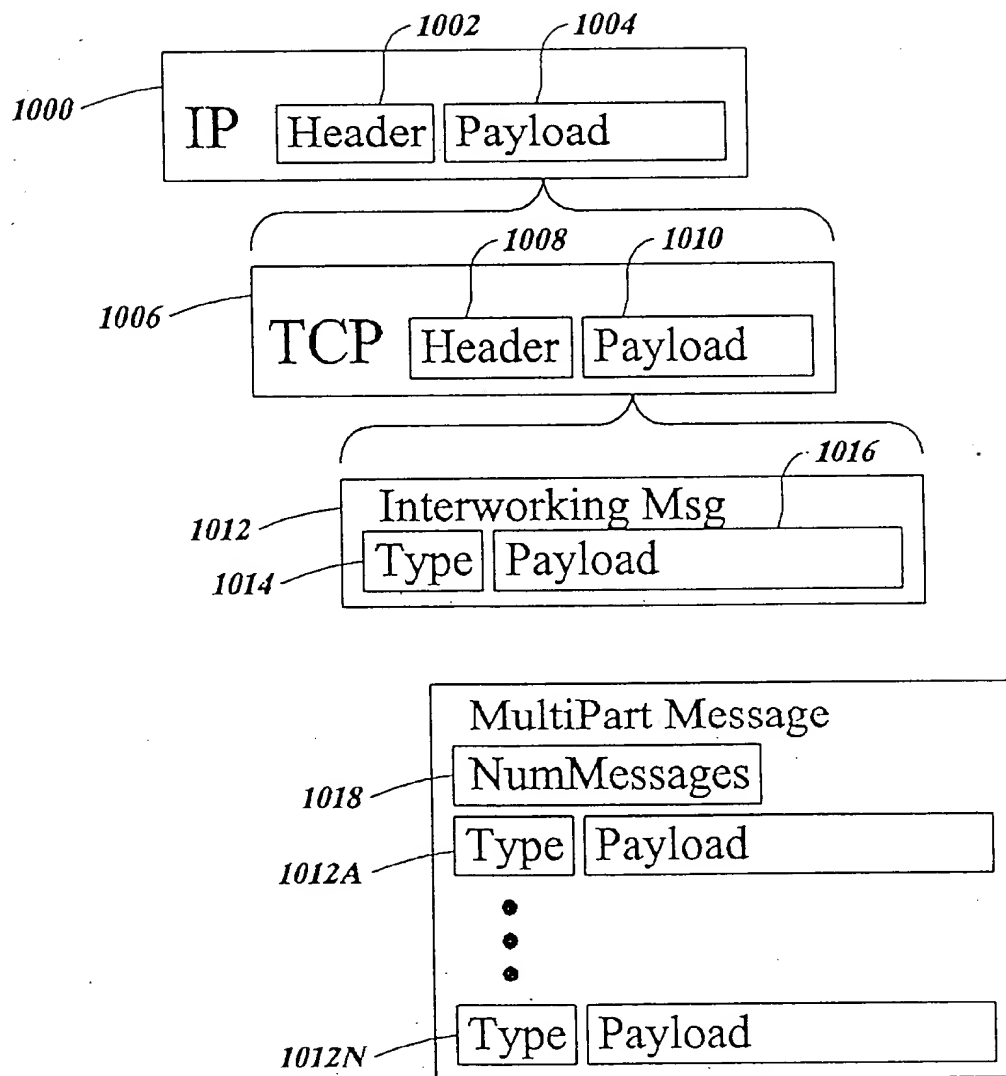
**FIG. 8**



FIG. 9a







**FIG. 10**

DIGIT	DURATION

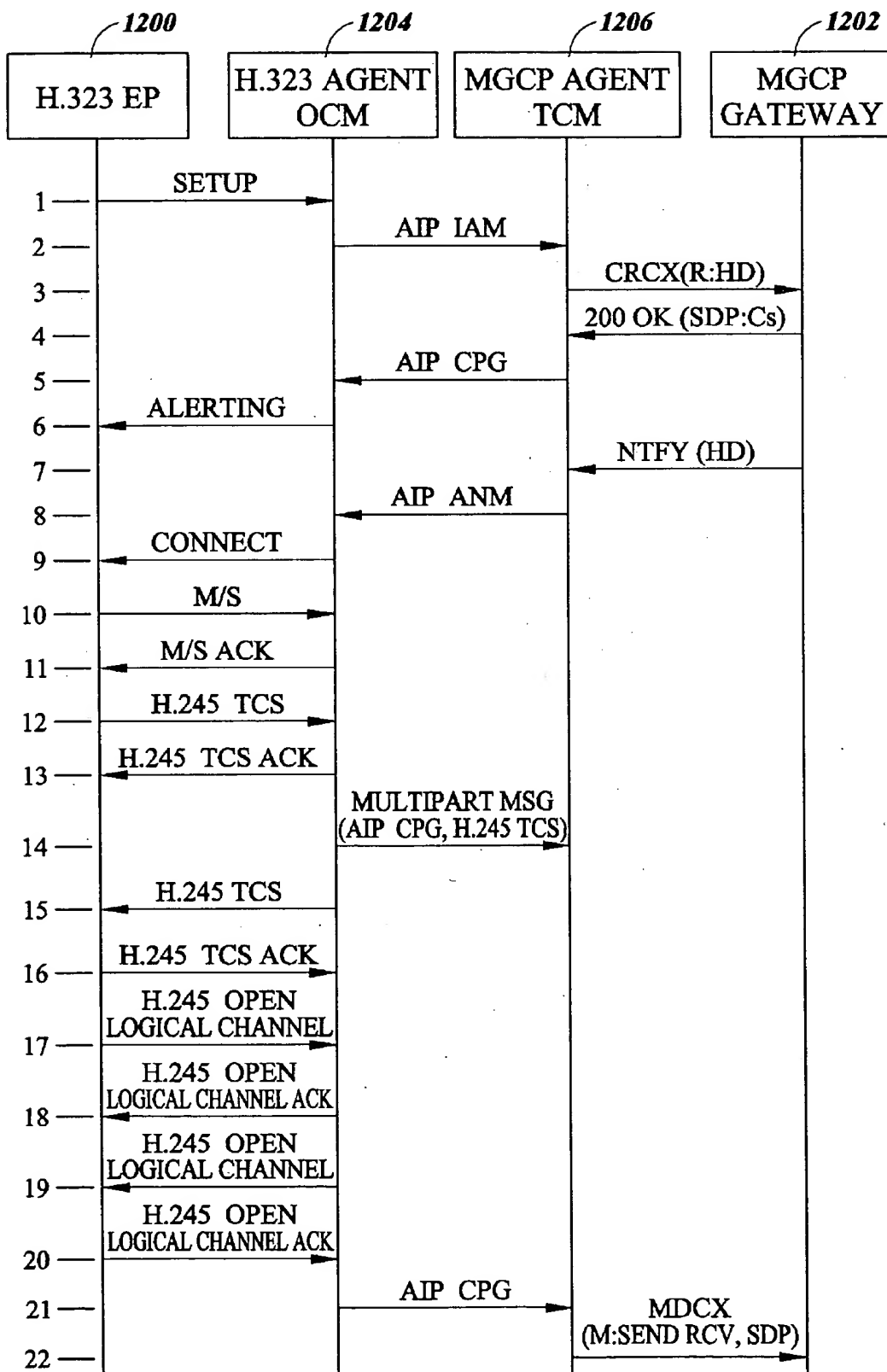
FIG. 11

```

sequenceDiagram
    participant 1200 as H.323 EP
    participant 1204 as H.323 AGENT OCM
    participant 1206 as MGCP AGENT TCM
    participant 1202 as MGCP GATEWAY

    Note over 1200: 1
    1200->>1204: SETUP (FASTSTART)
    Note over 1204: 2
    1204->>1206: AIP IAM (MEDIACAPABILITIES)
    Note over 1206: 3
    1206->>1202: CRCX (R:HD, L:MEDIACAPS)
    Note over 1202: 4
    1202->>1206: OK (SDP)
    Note over 1206: 5
    1206->>1204: AIP CPG (MEDIA DESCRIPTION)
    Note over 1204: 6
    1204->>1200: ALERTING (FASTSTART)
    Note over 1206: 7
    1206->>1202: NTFY (HD)
    Note over 1202: 8
    1202->>1206: AIP ANM
    Note over 1206: 9
    1206->>1204: CONNECT (FASTSTART)
    Note over 1204: 10
    1204->>1200: M/S
    Note over 1200: 11
    1200->>1204: M/S ACK
    Note over 1204: 12
    1204->>1206: H.245 TCS
    Note over 1206: 13
    1206->>1204: H.245 TCS ACK
    Note over 1204: 14
    1204->>1206: MULTIPART MSG (AIP CPG, H.245 TCS)
    Note over 1206: 15
    1206->>1204: H.245 TCS
    Note over 1204: 16
    1204->>1206: H.245 TCS ACK
  
```

FIG. 12



**FIG. 13**

The diagram illustrates the H.323 Close Logical Channel process across four entities: H.323 EP (1200), H.323 Agent BASIC CALL (1402), NA Q.931 AGENT BASIC CALL (1404), and NA Q.931 DEVICE (1400). The process is divided into two phases: 'HOLD' and 'FACILITY (M:INACTIVE)'.

**Sequence of Events:**

- 1**: H.323 EP sends **TCS=0** to H.323 Agent.
- 2**: H.323 Agent sends **AIP CPG** to NA Q.931 AGENT.
- 3**: H.323 EP sends **H.245 CLOSE LOGICAL CHANNEL(LC1)** to H.323 Agent.
- 4**: H.323 Agent sends **H.245 CLOSE LOGICAL CHANNEL ACK** to H.323 EP.
- 5**: H.323 EP sends **H.245 CLOSE LOGICAL CHANNEL(LC2)** to H.323 Agent.
- 6**: H.323 Agent sends **H.245 CLOSE LOGICAL CHANNEL ACK** to H.323 EP.
- 7**: H.323 EP sends **AIP CPG** to NA Q.931 AGENT.
- 8**: NA Q.931 AGENT sends **FACILITY (M:INACTIVE)** to NA Q.931 DEVICE.
- 9**: NA Q.931 AGENT sends **AIP CPG** to NA Q.931 DEVICE.

FIG. 14

```

sequenceDiagram
    participant 1200 as H.323 EP
    participant 1402 as H.323 Agent BASIC CALL
    participant 1404 as NA Q.931 AGENT BASIC CALL
    participant 1400 as NA Q.931 DEVICE

    Note over 1402, 1404: AIP CPG
    Note over 1404, 1400: RETRIEVE
    1402->>1200: M/S DET
    1200->>1402: M/S ACK
    1200->>1402: TERM CAP SET
    1402->>1200: TCS ACK
    1200->>1402: H.245 OPEN LOGICAL CHANNEL
    Note over 1402, 1404: AIP CPG
    1402->>1404: FACILITY (M:RCV ONLY)
    1404->>1200: H.245 OPEN LOGICAL CHANNEL ACK
    1200->>1402: H.245 OPEN LOGICAL CHANNEL
    1402->>1200: H.245 OPEN LOGICAL CHANNEL ACK
    Note over 1402, 1404: AIP CPG
    1402->>1404: FACILITY (M:SEND RCV)

```

The sequence diagram illustrates the signaling process between four entities: H.323 EP (labeled 1200), H.323 Agent BASIC CALL (labeled 1402), NA Q.931 AGENT BASIC CALL (labeled 1404), and NA Q.931 DEVICE (labeled 1400). The timeline consists of 14 numbered steps:

- Step 1:** An arrow labeled "AIP CPG" points from entity 1402 to entity 1404.
- Step 2:** An arrow labeled "RETRIEVE" points from entity 1404 to entity 1400.
- Step 3:** An arrow labeled "M/S DET" points from entity 1402 to entity 1200.
- Step 4:** An arrow labeled "M/S ACK" points from entity 1200 to entity 1402.
- Step 5:** An arrow labeled "TERM CAP SET" points from entity 1200 to entity 1402.
- Step 6:** An arrow labeled "TCS ACK" points from entity 1402 to entity 1200.
- Step 7:** An arrow labeled "H.245 OPEN LOGICAL CHANNEL" points from entity 1200 to entity 1402.
- Step 8:** An arrow labeled "AIP CPG" points from entity 1402 to entity 1404.
- Step 9:** An arrow labeled "FACILITY (M:RCV ONLY)" points from entity 1402 to entity 1400.
- Step 10:** An arrow labeled "H.245 OPEN LOGICAL CHANNEL ACK" points from entity 1404 to entity 1200.
- Step 11:** An arrow labeled "H.245 OPEN LOGICAL CHANNEL" points from entity 1200 to entity 1402.
- Step 12:** An arrow labeled "H.245 OPEN LOGICAL CHANNEL ACK" points from entity 1402 to entity 1200.
- Step 13:** An arrow labeled "AIP CPG" points from entity 1402 to entity 1404.
- Step 14:** An arrow labeled "FACILITY (M:SEND RCV)" points from entity 1402 to entity 1400.

FIG. 15



```

sequenceDiagram
    participant 1200 as H.323 EP
    participant 1402 as H.323 Agent BASIC CALL
    participant 1602 as MGCP AGENT BASIC CALL
    participant 1600 as MGCP DEVICE

    Note over 1602: NOTIFY (HOLD)
    Note over 1402: AIP CPG
    Note over 1200: TCS=0
    Note over 1200: H.245 CLOSE LOGICAL CHANNEL
    Note over 1200: H.245 CLOSE LOGICAL CHANNEL ACK
    Note over 1602: MDCX (M:INACTIVE)
    Note over 1402: AIP CPG
    Note over 1200: H.245 CLOSE LOGICAL CHANNEL(LC2)
    Note over 1200: H.245 CLOSE LOGICAL CHANNEL ACK
  
```

The diagram illustrates the H.245 Close Logical Channel process across four entities: H.323 EP (1200), H.323 Agent BASIC CALL (1402), MGCP AGENT BASIC CALL (1602), and MGCP DEVICE (1600). The process is divided into two main phases, each initiated by an AIP CPG signal from the H.323 Agent BASIC CALL. In the first phase, the H.323 EP sends an H.245 CLOSE LOGICAL CHANNEL message, which is acknowledged by the H.323 Agent BASIC CALL. The MGCP AGENT BASIC CALL then sends a NOTIFY (HOLD) message to the MGCP DEVICE. In the second phase, the H.323 EP sends an H.245 CLOSE LOGICAL CHANNEL(LC2) message, which is acknowledged by the H.323 Agent BASIC CALL. The MGCP AGENT BASIC CALL then sends an MDCX (M:INACTIVE) message to the MGCP DEVICE.

FIG. 16

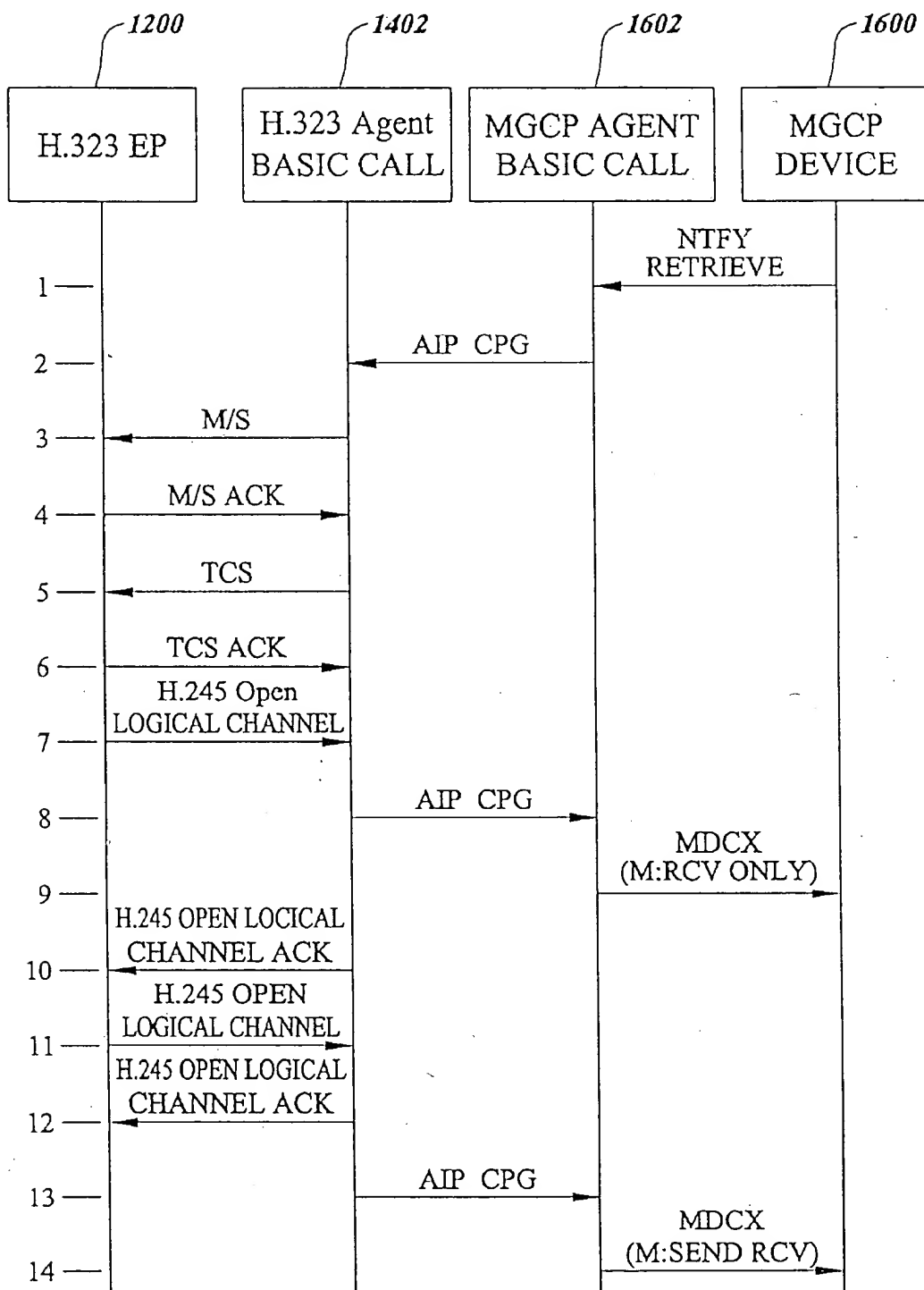


FIG. 17

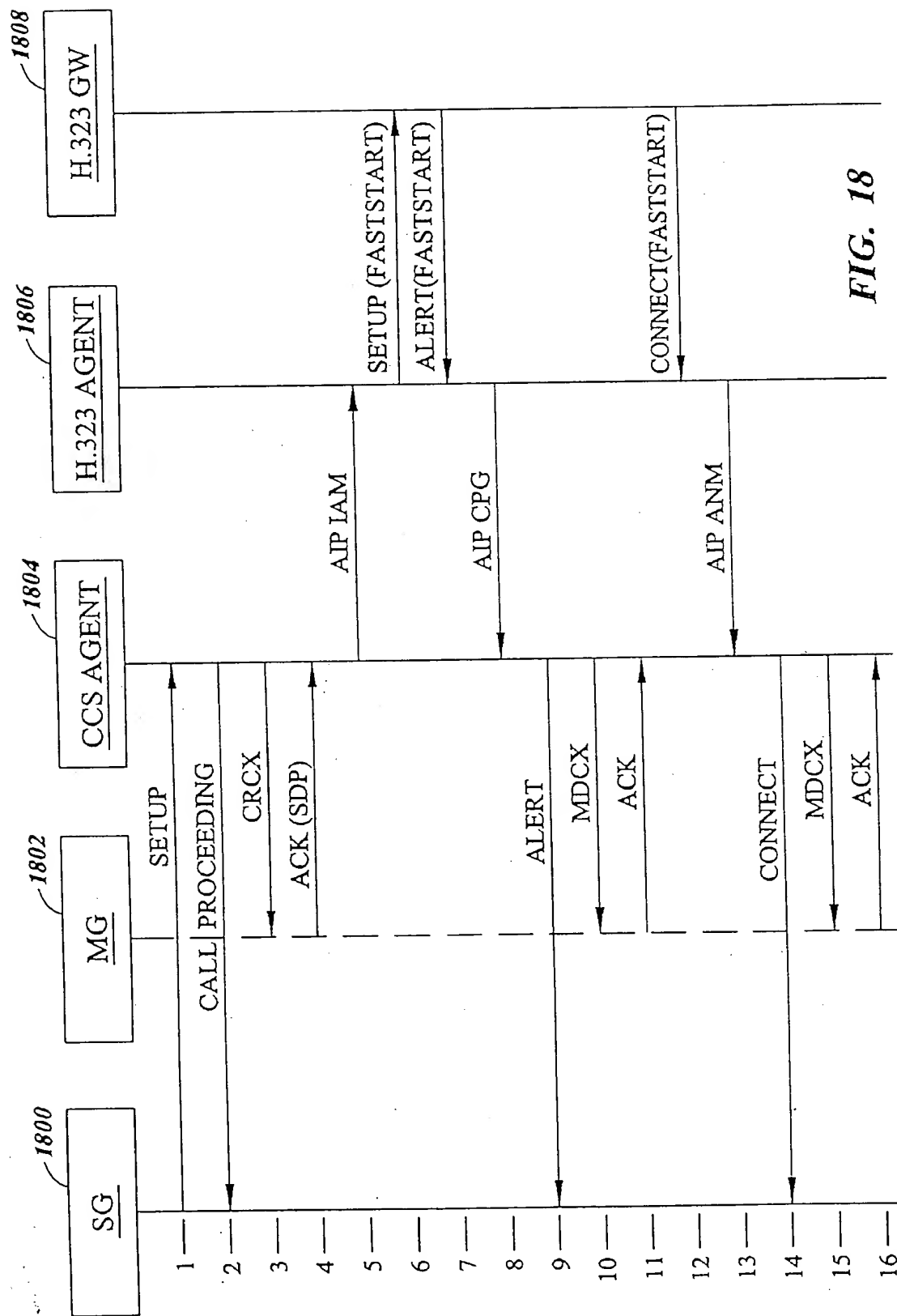


FIG. 18

